

SEQUENCE LISTING

<110> Anthony P. Heaney
Gregory A. Horwitz
Xun Zhang
Shlomo Melmed

<120> Methods of Using Pituitary Tumor
Transforming Gene (PTTG) Carboxy-terminal Peptides to
Inhibit Neoplastic Cellular Proliferation And/Or
Transformation of Breast and Ovarian Cells

<130> CEDAR-45257

<140> NOT ASSIGNED
<141> 2000-12-04

<150> US CIP 09/687,911
<151> 2000-10-13

<150> US CIP 09/569,956
<151> 2000-05-12

<150> US 08/894,251
<151> 1999-07-23

<150> PCT/US97/21463
<151> 1997-11-21

<150> US 60/031,338
<151> 1996-11-21

<160> 19

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<211> 974
<212> DNA
<213> Rattus rattus

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gcgttatga ccctggcgtg aagatttaag gtctggatta agcctgtta cttctccagc 180
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tgtcaacaga gttactgaaa agccagtgaa gagtagtaaa cccctgcaat cggaaacagcc 540
gactctgagt gtgaaaaaga tcaccgagaa gtctactaag acacaaggct ctgctccctgc 600
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gagtttgac ctgcctgaag agcaccagat ctcacttctc cccttgaatg gagegcctct 720
catgatcctg aatgaagaga gggggcttga gaagctgctg cacctggacc ccccttcccc 780
tctgcagaag cccttcctac cgtggaaatc tgatccgtt ccgtctccctc ccagcgccct 840
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<210> 2
<211> 199
<212> PRT
<213> Rattus rattus

<400> 2
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Arg Leu Ala Ser Lys Asp Gly Leu Lys Leu Gly Ser Gly Val Lys Ala
20 25 30
Leu Asp Gly Lys Leu Gln Val Ser Thr Pro Arg Val Gly Lys Val Phe
35 40 45
Gly Ala Pro Gly Leu Pro Lys Ala Ser Arg Lys Ala Leu Gly Thr Val
50 55 60
Asn Arg Val Thr Glu Lys Pro Val Lys Ser Ser Lys Pro Leu Gln Ser
65 70 75 80
Lys Gln Pro Thr Leu Ser Val Lys Lys Ile Thr Glu Lys Ser Thr Lys
85 90 95
Thr Gln Gly Ser Ala Pro Ala Pro Asp Asp Ala Tyr Pro Glu Ile Glu
100 105 110
Lys Phe Phe Pro Phe Asp Pro Leu Asp Phe Glu Ser Phe Asp Leu Pro
115 120 125
Glu Glu His Gln Ile Ser Leu Leu Pro Leu Asn Gly Val Pro Leu Met
130 135 140
Ile Leu Asn Glu Glu Arg Gly Leu Glu Lys Leu Leu His Leu Asp Pro
145 150 155 160
Pro Ser Pro Leu Gln Lys Pro Phe Leu Pro Trp Glu Ser Asp Pro Leu
165 170 175
Pro Ser Pro Pro Ser Ala Leu Ser Ala Leu Asp Val Glu Leu Pro Pro
180 185 190
Val Cys Tyr Asp Ala Asp Ile
195

<210> 3
<211> 779
<212> DNA
<213> Homo sapiens

<400> 3
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cctgcctgaa gagcaccaga ttgcgcaccc ccccttgagt ggagtgcctc tcatgatcct 540
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gccctctcca ccatggaaat ccaatcttt gcagtctcc tcaagcattc tgtcgaccct 660
ggatgttcaa ttgcacccctg tttgctgtga catagatatt taaatttctt agtgcttcag 720
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<212> PRT
<213> Homo sapiens

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Lys Ala Leu Asp Gly Arg Ser Gln Val Ser Thr Pro Arg Phe Gly Lys
35 40 45
Thr Phe Asp Ala Pro Pro Ala Leu Pro Lys Ala Thr Arg Lys Ala Leu
50 55 60
Gly Thr Val Asn Arg Ala Thr Glu Lys Ser Val Lys Thr Lys Gly Pro
65 70 75 80
Leu Lys Gln Lys Gln Pro Ser Phe Ser Ala Lys Lys Met Thr Glu Lys
85 90 95
Thr Val Lys Ala Lys Ser Ser Val Pro Ala Ser Asp Asp Ala Tyr Pro
100 105 110
Glu Ile Glu Lys Phe Phe Pro Phe Asn Pro Leu Asp Phe Glu Ser Phe
115 120 125
Asp Leu Pro Glu Glu His Gln Ile Ala His Leu Pro Leu Ser Gly Val
130 135 140
Pro Leu Met Ile Leu Asp Glu Glu Arg Glu Leu Glu Lys Leu Phe Gln
145 150 155 160
Leu Gly Pro Pro Ser Pro Val Lys Met Pro Ser Pro Pro Trp Glu Ser
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180 185 190
Leu Pro Pro Val Cys Cys Asp Ile Asp Ile
195 200

<210> 5
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide.

<400> 5
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<210> 6
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
 <223> Synthetic oligonucleotide.

 <400> 6
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 <210> 7
 <211> 32
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic oligonucleotide specific to pCI-neo
 plasmid vector.

 <400> 7
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 <210> 8
 <211> 31
 <212> DNA
 <213> Homo sapiens

 <400> 8
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 <210> 9
 <211> 56
 <212> PRT
 <213> Homo sapiens

 <400> 9
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 35 40 45
 Pro Val Cys Cys Asp Ile Asp Ile
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<210> 10
 <211> 168
 <212> DNA
 <213> Homo sapiens

<400> 10
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<210> 11
 <211> 16

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<212> DNA
<213> Artificial Sequence

<220>
<223> Anchored primer sequence.

<400> 11
aagctttttt tttttg

16

<210> 12
<211> 13
<212> DNA
<213> Artificial Sequence

<220>
<223> Arbitrary primer sequence.

<400> 12
aagcttgctg ctc

13

<210> 13
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> n = a, g, or c; Anchored primer sequence.

<400> 13
aagctttttt ttttttn

16

<210> 14
<211> 194
<212> PRT
<213> Mus musculus

<400> 14
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Arg Leu Ala Ser Lys Asp Gly Leu Lys Leu Gly Thr Gly Val Lys Ala
20 25 30
Leu Asp Gly Lys Leu Gln Val Ser Thr Pro Arg Val Gly Lys Val Phe
35 40 45
Asn Ala Pro Ala Val Pro Lys Ala Ser Arg Lys Ala Leu Gly Thr Val
50 55 60
Asn Arg Val Ala Glu Lys Pro Met Lys Thr Gly Lys Pro Leu Gln Pro
65 70 75 80
Lys Gln Pro Thr Leu Thr Gly Lys Lys Ile Thr Glu Lys Ser Thr Lys
85 90 95
Thr Gln Ser Ser Val Pro Ala Pro Asp Asp Ala Tyr Pro Glu Ile Glu
100 105 110
Lys Phe Phe Pro Phe Asn Pro Leu Asp Phe Asp Leu Pro Glu Glu His
115 120 125
Gln Ile Ser Leu Leu Pro Leu Asn Gly Val Pro Leu Ile Thr Leu Asn
130 135 140

DRAFT 9/4/02 2:50

Glu Glu Arg Gly Leu Glu Lys Leu Leu His Leu Gly Pro Pro Ser Pro
145 150 155 160
Leu Lys Thr Pro Phe Leu Ser Trp Glu Ser Asp Pro Lys Pro Pro Ser
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Ala Leu Ser Thr Leu Asp Val Glu Leu Pro Pro Val Cys Tyr Asp Ala
180 185 190
Asp Ile

<210> 15
<211> 945
<212> DNA
<213> Mus musculus

<400> 15
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<210> 16
<211> 56
<212> PRT
<213> Rattus rattus

<400> 16
Met Ile Leu Asn Glu Glu Arg Gly Leu Glu Lys Leu Leu His Leu Asp
1 5 10 15
Pro Pro Ser Pro Leu Gln Lys Pro Phe Leu Pro Trp Glu Ser Asp Pro
20 25 30
Leu Pro Ser Pro Pro Ser Ala Leu Ser Ala Leu Asp Val Glu Leu Pro
35 40 45
Pro Val Cys Tyr Asp Ala Asp Ile
50 55

<210> 17
<211> 56
<212> PRT
<213> Mus musculus

<400> 17

Ile Thr Leu Asn Glu Glu~~Arg~~ Gly Leu Glu Lys Leu Leu His Ile~~Arg~~ Gly
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Pro Pro Ser Pro Leu Lys Thr Pro Phe Leu Ser Trp Glu Ser Asp Pro
20 25 30
Leu Tyr Ser Pro Pro Ser Ala Leu Ser Thr Leu Asp Val Glu Leu Pro
35 40 45
Pro Val Cys Tyr Asp Ala Asp Ile
50 55

<210> 18
<211> 168
<212> DNA
<213> Rattus rattus

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tccgctctgg atgttgaatt gccgcctgtt ttttacgtg cagatatt 168

<210> 19
<211> 168
<212> DNA
<213> Mus musculus

<400> 19
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tccactctgg atgttgaatt gccgcctgtt ttttacgtg cagatatt 168